

Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>				<b>Complete if Known</b>	
				Application Number	09/475,704
				Filing Date	December 30, 1999
				First Named Inventor	Susan W. BARNETT
				Art Unit	1635
				Examiner Name	J. S. Pitrak
Sheet	1	of	2	Attorney Docket Number	PAT051386-US-NP

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1.	US-5,738,852-A	04-14-1998	Robinson et al.	
	2.	US-5,858,646-A	01-12-1999	Kang et al.	
	3.	US-6,610,476-B1	08-26-2003	Chang et al.	
	4.	US-7,211,659-B2	05-01-2007	zur Megede et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
	5.	WO-90/10230	09-07-1990	University of Ottawa		
	6.	WO-98/26075	06-18-1998	Institut National De La Sante et De La Recherche Medicale - Inserm	Translation of abstract only.	
	7.	WO-03/20876	03-13-2003	Chiron Corp.		

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NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T <sup>2</sup>
	8.	BARNETT et al. (1999). "DNA vaccines coming of age," <i>Annual Rep Med Chem</i> 34, Chapter 15, pages 149-158.		
	9.	BARNETT et al. (June 2001). "The ability of an oligomeric human immunodeficiency virus type 1 (HIV-1) envelope antigen to elicit neutralizing antibodies against primary HIV-1 isolates is improved following partial deletion of the second hypervariable region," <i>J Virol.</i> 75(12):5526-40.		
	10.	BRUSIC et al. (1998). "Prediction of MHC class II-binding peptides using an evolutionary algorithm and artificial neural network," <i>Bioinformatics</i> 14(2):121-30.		
	11.	CARTER, (1994) "Epitope Mapping of a Protein Using the Geysen (PEPSCAN) Procedure," <i>Methods Mol. Biol.</i> 36:207-23.		
	12.	CHANG et al. (August 2000). "Human immunodeficiency virus type 1 subtype E envelope recombinant peptides containing naturally immunogenic epitopes," <i>J Infect Dis.</i> 182(2):442-50.		
	13.	DAI, L. C., et al. (1992) "Mutation of human immunodeficiency virus type 1 at amino acid 585 on gp41 results in loss of killing by CD8+ A24-restricted cytotoxic T lymphocytes," <i>J. Virol.</i> 66(5):3151-3154.		
	14.	DAVENPORT et al. (1995) "An empirical method for the prediction of T-cell epitopes," <i>Immunogenetics</i> 42:392-97.		
	15.	DESROSIERS, R. C., (2004). "Prospects for an AIDS vaccine," <i>Nat. Med.</i> 10(3):221-223.		
	16.	FELLER & DE LA CRUZ, (1991). "Identifying antigenic T-cell sites," <i>Nature</i> 349(6311):720-721.		

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17.	FENOGLIO, D., et al., (2000). "Natural analogue peptides of HIV-1 gp120 T-helper epitope antagonize response of gp120-specific human CD4 T-cell clones," <i>J AIDS</i> 23:1-7.	
18.	GEYSEN et al. (1984). "Use of peptide synthesis to probe viral antigens for epitopes to a resolution of a single amino acid," <i>Proc. Natl. Acad. Sci. USA</i> 81:3998-4002.	
19.	HEENEY et al., (1999). "HIV-1 vaccine-induced immune responses which correlate with protection from SHIV infection: compiled preclinical efficacy data from trials with ten different HIV-1 vaccine candidates," <i>Immunology Letters</i> 66:189-195.	
20.	HOPP, (1993). "Retrospective: 12 Years of Antigenic Determinant Predictions and More," <i>Peptide Research</i> 6:183-90.	
21.	Instructions to Authors, 2008, <i>J. Virol.</i> 82(1):1-19.	
22.	JAMESON et al., (1988). "The antigenic index: a novel algorithm for predicting antigenic determinants," <i>Comput. Appl. Biosci.</i> 4(1):1818-1886.	
23.	JOHNSON, P. R., et al., (1992). "Identification of overlapping HLA class I-restricted cytotoxic T cell epitopes in a conserved region of the human immunodeficiency virus type 1 envelope glycoprotein: definition of minimum epitopes and analysis of the effects of sequence variation," <i>J. Exp. Med.</i> 175:961-971.	
24.	KOLASKAR et al. (1990). "A semi-empirical method for prediction of antigenic determinants on protein antigens." <i>FEBS Lett.</i> 276:172-174.	
25.	LEE et al., (2000). "A single point mutation in HIV-1 V3100p alters the immunogenic properties of rgp120," <i>Arch Virol.</i> 145(10):2087-2103.	
26.	LIU, Y., et al., (2006). "Selection on the human immunodeficiency virus type 1 proteome following primary infection," <i>J. Virol.</i> 80(19):9519-9529.	
27.	MAKSUYTOV & ZAGREBELNAYA, (1993). "ADEPT: a computer program for prediction of protein antigenic determinants," <i>Comput. Appl. Biosci.</i> 9(3):291-297.	
28.	MCLAIN, L., et al., (2001). "Different effects of a single amino acid substitution on three adjacent epitopes in the gp41 C-terminal tail of a neutralizing antibody escape mutant of human immunodeficiency virus type 1," <i>Arch. Virol.</i> 146:157-166.	
29.	MEISTER et al., (1995). "Two novel T cell epitope prediction algorithms based on MHC-binding motifs; comparison of predicted and published epitopes from Mycobacterium tuberculosis and HIV protein sequences," <i>Vaccine</i> 13(6):581-591.	
30.	PANTALEO, G., and R. A. Koup, (2004). "Correlates of immune protection in HIV-1 infection: what we know, what we don't know, what we should know," <i>Nat. Med.</i> 10(8):806-810.	
31.	ROBERTS et al., (1996). "Prediction of HIV Peptide Epitopes by a Nova1 Algorithm," <i>AIDS Res. Hum. Retroviruses</i> 12(7):593-610.	
32.	VERSCHOOR, (1999). "Comparison of immunity generated by nucleic acid, MF59 and iscom-formulated HIV-1 Gp120 vaccines in rhesus macaques," <i>J Med Primatol</i> 28(4/5):Abstract #37	
33.	WATKINS, B. A., et al., (1993). "Immune escape by human immunodeficiency virus type 1 from neutralizing antibodies: evidence for multiple pathways," <i>J. Virol.</i> 67(12):7493-7500.	
34.	WELLING et al., (1985). "Prediction of sequential antigenic regions in proteins," <i>FEBS Lett.</i> 188:215-18,	
35.	zur MEGEDE et al., (2006). "Evaluation of human immunodeficiency type 1 subtype C gag, pol, and gagpol DNA and alphavirus replicon vaccines," <i>Vaccine</i> 24:2755-2763.	
36.	zur MEGEDE et al., (June 2003). "Expression and Immunogenicity of Sequence-modified Human Immunodeficiency Virus Type 1 Subtype B pol and gagpol DNA Vaccines," <i>J Virol.</i> 77(11):6197-6207.	

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